



Tesnila Bogadi d.o.o.  
Karantanska ulica 21  
SI-2000 Maribor, Slovenija

T: +386 (0)2 426 04 50 / 426 04 52 / 426 04 53  
E: info@bogadi.si  
W: www.bogadi.com



## Technical data sheet

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### PA6 C (Polyamide 6, casted)

Properties	Value	Unit	DIN Standard
Hardness	85±3	Shore D	ISO 868
Density	1,15	g/cm <sup>3</sup>	ISO 1183-1
Tensile Strength 23°C	85	MPa	ISO 527
Elongation at Break 23°C	40	%	ISO 527
E-modulus	3900-4200	MPa	ISO 527
Impact strenght	No break	kJ/m <sup>2</sup>	DIN53453
Ball indentation hardness	160	MPa	ISO 2039-1
Heat distortion	0,23	W/mK	DIN 53461
Sliding coefficient	0,4	μ	/
Wather absorption 23°C, saturation	6,5	%	ISO 62
Service Temperature (Min-Max)	-40/+105	°C	/
Short-term service temperature	170	°C	/
Melting temperature	220	°C	ISO 3146
Therm. Coefficient of linear exp.	8	1/K.10 <sup>-5</sup>	DIN53752
Flammability classification	HB		UL 94

In sealing technology, PA6 (polyamide 6) is used for components requiring high strength, toughness, and wear resistance.

It is suitable for guide rings, wear rings, bushings, sliding elements, and back-up rings under moderate loads. PA6 is often used as a cost-effective substitute for POM in larger dimensions, where lower dimensional stability is acceptable.

It offers good resistance to mineral oils and diluted acids and bases, but absorbs moisture, which can affect dimensions.

#### Foodstuff approval:

FDA \*

EU Regulation 10/2011\*

\*The user is responsible for performing the necessary tests to confirm that the above-mentioned material is suitable for use in pharmaceutical and medical applications.

All data provided above are based on random samples taken from our ongoing production. The results were determined using standard test specimens in accordance with ISO, DIN, and ASTM methods. These results cannot be directly applied to specific finished components.

Any technical information or advice we provide—whether verbal, written, or based on testing—is given to the best of our knowledge. Nevertheless, this information should be regarded as non-binding guidance and does not release the user from the obligation to verify the suitability of our products for their intended process or application. Possible third-party property rights must also be observed.

Since the use, application, and processing of our products take place beyond our control, they remain solely the responsibility of the user. In any case where liability may arise, it shall be limited to damages not exceeding the value of the product supplied and used.

We do, however, guarantee the flawless quality of our products in accordance with our general terms and conditions of sale and delivery.

